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APPLICATION NO.	FILING	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,629	06/24/2003		Motomi Shimada	520.42870X00	1143
20457	7590	09/07/2004		EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 1800 ARLINGTON, VA 22209-9889				SAN MARTIN, EDGARDO	
				ART UNIT	PAPER NUMBER
				2837	

DATE MAILED: 09/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/601,629	SHIMADA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Edgardo San Martin	2837					
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replet if NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statuly any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).		nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 24 June 2003.							
2a) This action is FINAL . 2b) ⊠ Thi							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-3 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-3 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)⊠ The specification is objected to by the Examin	er.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E		• •					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice of Informal Page 6) Other:	atent Application (PTO-152)					

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DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:

The abstract of the disclosure is objected. Applicant is reminded of the proper language and format for an abstract of the disclosure. The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "the," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details. The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc. Correction is required. See MPEP § 608.01(b).

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- In the Specification, on page 7, line 12 and page 15, line 19 the occurrence of reference number "8" should be replaced by - - 9 - -.

Appropriate correction is required.

Claim Objections

2. Claims 1-3 are objected to because of the following informalities:

With respect to claim 1:

- In line 6, the word "such" should be deleted;
- In line 10, the phrase "is characterized in that it" should be deleted;
- In line 20, the word "the" should be deleted;

With respect to claims 2 and 3:

- In line 6, the word "such" should be deleted;
- In line 10, the phrase "is characterized in that it" should be deleted;

With respect to claim 3:

- In line 6, the word "such" should be deleted;
- In line 10, the phrase "is characterized in that it" should be deleted;
- In line 14, before "switching elements" the word "the" should be deleted.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1 – 3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitations "the rotational speed" in line 4, "the required value" in line 8, "the required rate of change" in line 9, "the speed region" and "the required speed" in line 13, "the specified torque value" in line 15, "the carrier frequency" in line 18, and "the carrier frequency existing" in line 21. There is insufficient antecedent basis for this limitation in the claim.

Claim 2 recites the limitations "the rotational speed" in line 4, "the required value" in line 8, "the required rate of change" in line 9, "the speed region" in line 12, "the required speed" in line 13, and "the specified torque value" in line 14. There is insufficient antecedent basis for this limitation in the claim.

Claim 3 recites the limitations "the rotational speed" in line 4, "the required value" in line 8, "the required rate of change" in line 9, "the required speed" in line 12, "the carrier frequency" in line 13, and "the carrier frequency existing" in line 16. There is insufficient antecedent basis for this limitation in the claim.

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Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claims 1 3 are rejected under 35 U.S.C. 102(a) as being anticipated by Shimada et al. (JP 2001-251701) (US 6,456,909 will be used as the English translation).

Shimada et al. teach a control apparatus for an electric vehicle, comprising an electric power converter (Fig.1, Item 16) for driving a motor; a means for detecting the rotational speed (Fig.1, Item 5) of the motor; and a control means (Fig.1, Item 10) for the electric power converter, that provides control so that when a rotational speed of the motor decreases below a required value, the torque of the motor will decrease at a required rate of change (Abstract) (Col.2, Line 56 – Col.3, Line 67), wherein the control apparatus further has a means for providing control so that when the rotational speed of the motor reaches a speed region of a required speed or less during retardation, the torque of the motor will be smaller than a specified torque value existing when the rotational speed of the motor decreases below the required value; and a means for providing control so that a carrier frequency at which PWM signals are created during the control of switching elements constituting the electric power converter will be lower than a carrier frequency existing when the rotational speed of the motor decreases below the required value (Fig.2; Col.4, Lines 1 – 56).

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Conclusion

5. The attached hereto PTO Form 892 lists prior art made of record that the Examiner considered it pertinent to applicant's disclosure.

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edgardo San Martin whose telephone number is (571) 272-2074. The examiner can normally be reached on 8:00AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Martin can be reached on (571) 272-2107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edgardo San Martín Patent Examiner

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Class 318

September 3, 2004